Research Data Services in European University Libraries: Current Offerings and Plans for the Future

Carol Tenopir University of Tennessee and Hanken School of Economics ctenopir@utk.edu











A bit about me...







Academic Year 2016-2017



University of Tennessee, Knoxville













DataONE Usability & Assessment Working Group: Assess the needs and motivations of various stakeholders for science data. (dataone.org)



Working Group on Scientific Information Infrastructures: ...collects good practices and lessons learned in the area of research data management in libraries.





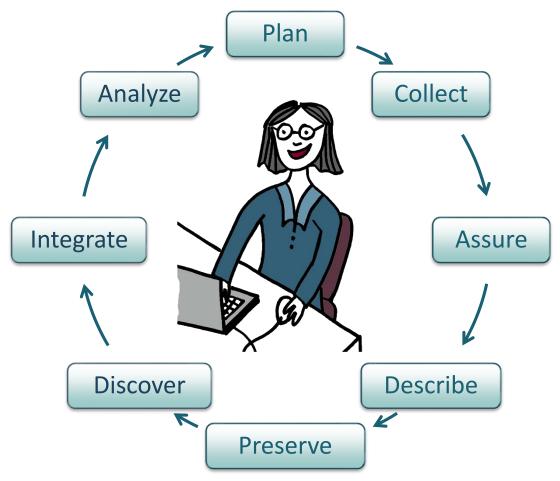
Research Data Services are...

 ...services that address the full data lifecycle, including the data management plan, digital curation (selection, preservation, maintenance, and archiving), and metadata creation and conversion.





Data Data Lifecycle







Library Challenges



Research Data Services are...

 ...services that address the full data lifecycle, including the data management plan, digital curation (selection, preservation, maintenance, and archiving), and metadata creation and conversion.

• Services can be informational or technical





Informational/Advisory RDS

- Collaboration and outreach
- Policy development and planning
- Discussing RDS with others
- Reference for finding and citing data
- Creating web guides and finding aids
- Directly participating on a project
- Consulting on DMPs and metadata
- Training co-workers on data issues





Technical RDS

- Providing tech support for RDS systems/data repositories
- Identifying datasets for deposit in repositories
- Preparing datasets for deposit
- Deselecting datasets for removal from a repository
- Creating or transforming metadata





Assessment of Stakeholders

Public Officials

Data Managers





Publishers





Scientists



Students & Teachers



Citizen-scientists



Libraries & Librarians





We are learning about Scientists

1st Scientist Survey (2011)



Published: August 26, 2015 • http://dx.doi.org/10.1371/journal.pone.0134826

Views: 36, 313 Citations: 205 Shares: 68 (published Jun 2011)

Views: 8,511 Citations: 8 Shares: 165 (published Aug 2015)



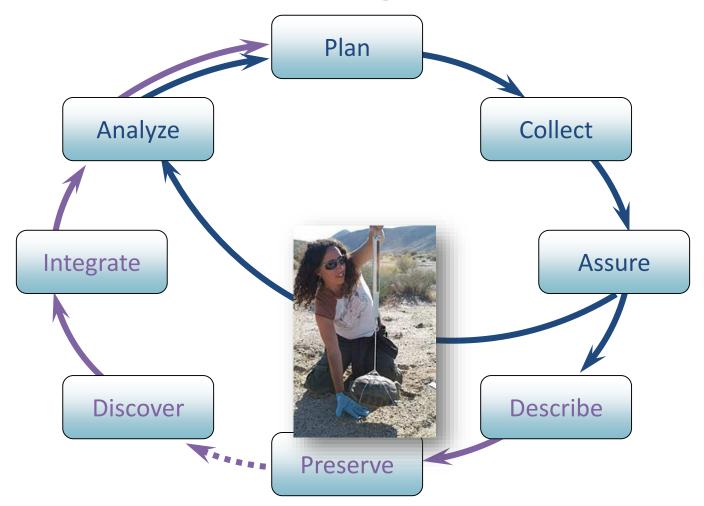
HANKEN

Results of DataONE *scientists* surveys show opportunities for universities and libraries...





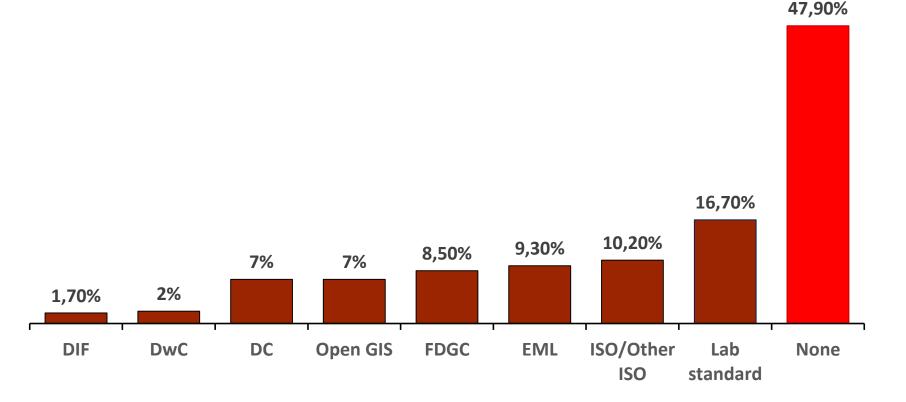
Researchers might...







What metadata do you currently use to describe your data? (2014-2015)



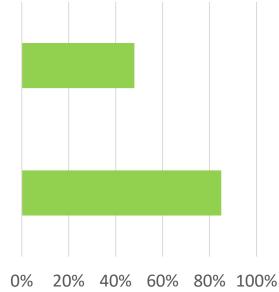




Most are willing to share at least some data... I am willing to:

Place all of my data into a central data repository (2014 n=609)

Place at least some of my data into a central repository (2014 n=623)







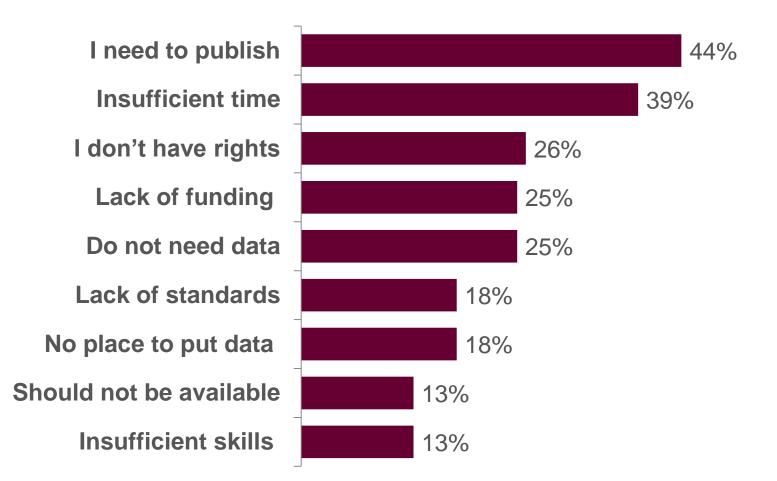
Gap between willingness to share and accessibility

- Although 80% of scientists agree "I share my data"
- Only 46% agree "Others can access my data easily"





Barriers for scientists







However, lack of access to data ...

... is a major impediment to progress in science **75% agree or strongly agree.**

... has restricted my ability to answer scientific questions

53% agree or strongly agree.







- Facilitate interdisciplinary work and data knowledge through collections and services
- Understand metadata
- Know how to find information about data
- In partnership with other administrative units can take a leadership role in a variety of research data services





European Survey Builds on Previous DataONE Library Surveys

1st Library (2012)

ACADEMIC LIBRARIES AND RESEARCH DATA SERVICES

Citations: 82 (published June 2012)

Current Practices and Plans for the Future An ACRL White Paper

2nd Library (2015)

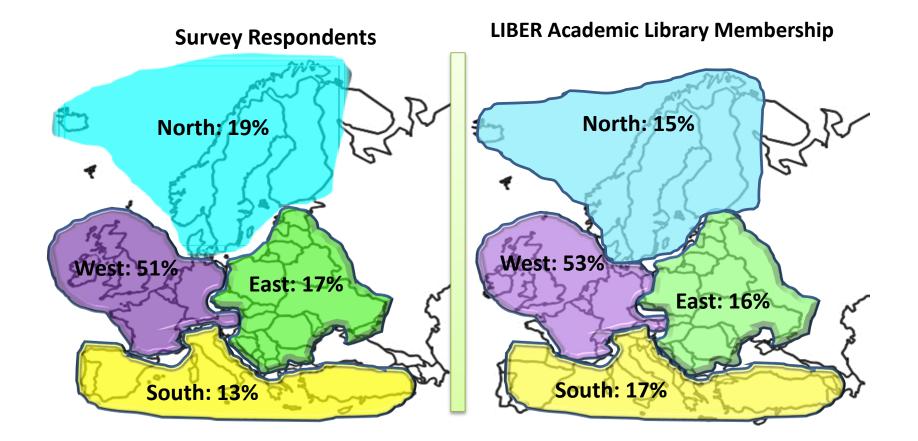


Citations: 11 1,518 downloads (published Dec 2015)

THE UNIVERSITY OF



LIBER Survey of European Academic Research Libraries: 2016-2017







Key Findings

- LIBER academic libraries offer a range of Research Data Services, but...
- 2. Consultative RDS are most common (fewer libraries offer technical RDS)
- 3. Libraries use a variety of strategies for developing staff skills



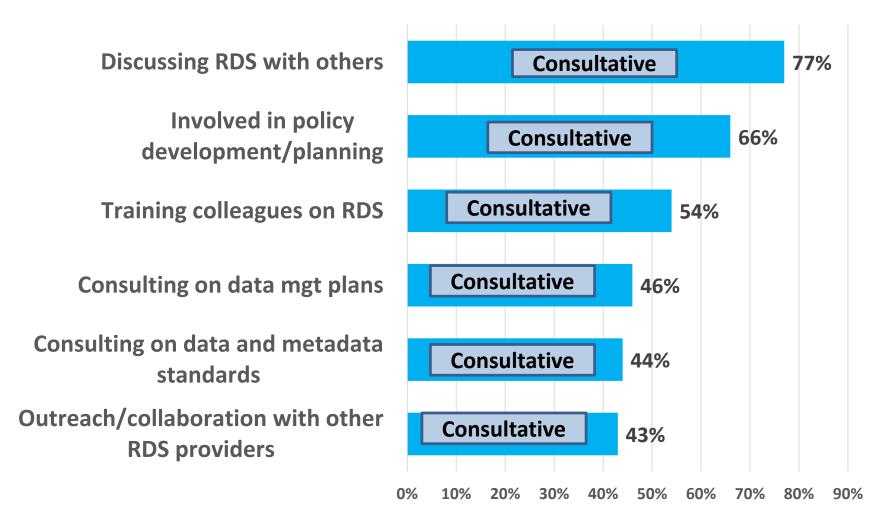


1) LIBER academic libraries offer a range of Research Data Services



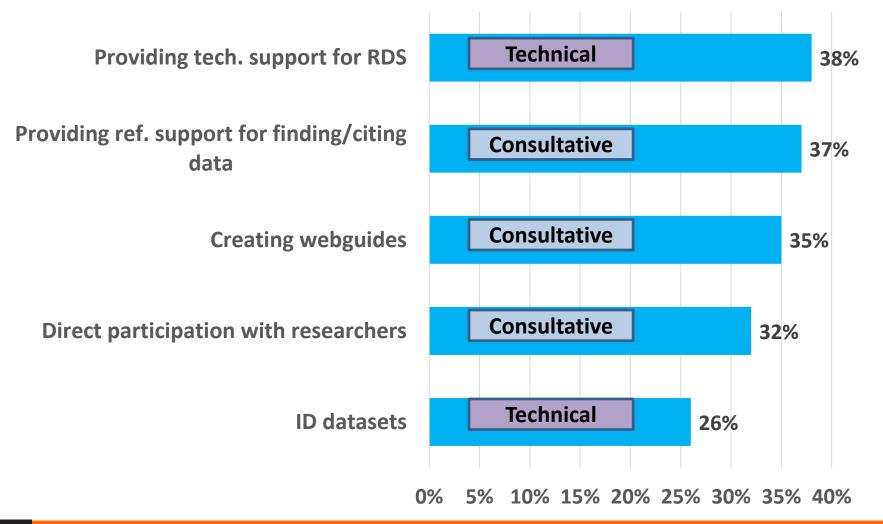


RDS offered by most libraries currently





RDS offered continued



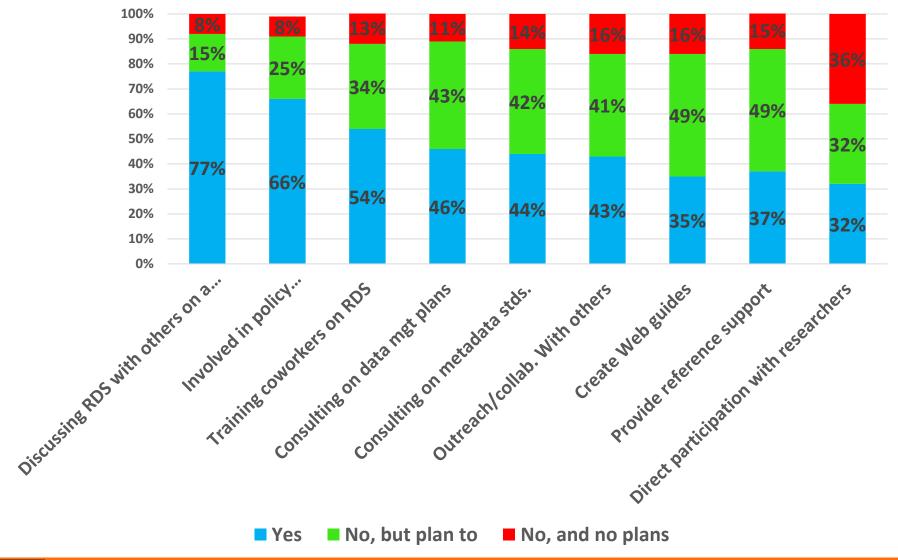


2) Consultative are more commonly offered than technical RDS



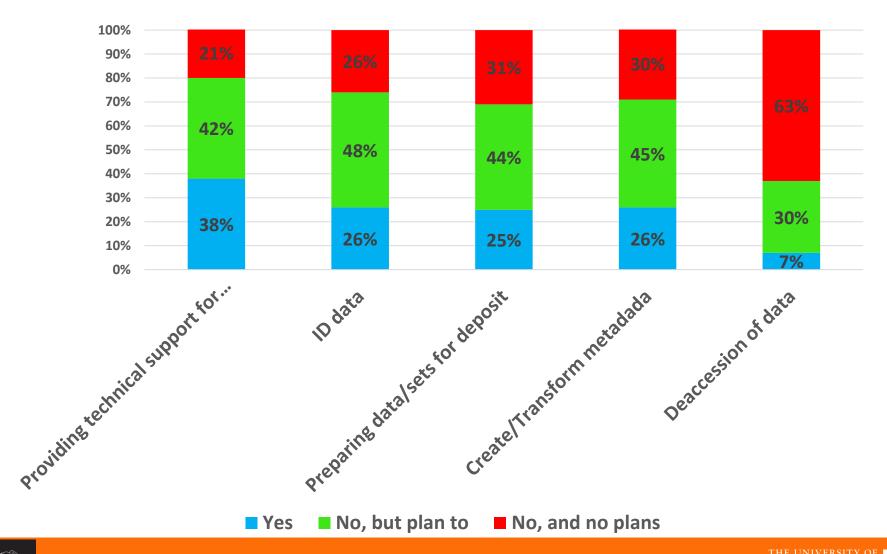


Currently offered and future plans for consultative-type services





Currently offered and future plans for technical-type services





We also know...

- There is great variation between libraries
- Some universities and some countries within a region are ahead in RDS





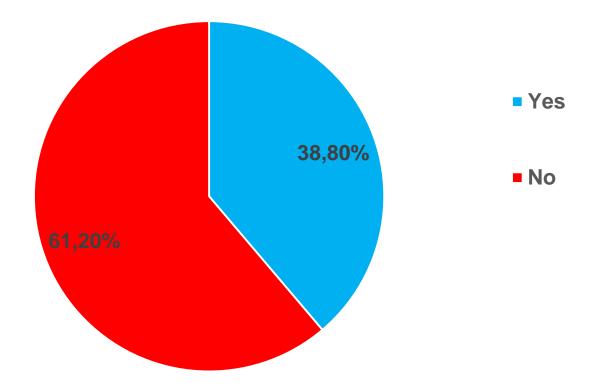


3) Libraries have a variety of strategies for developing staff skills





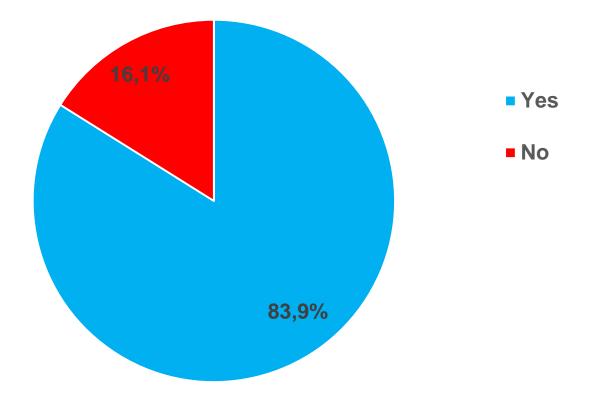
Have you hired staff for RDS in the last 12 months?







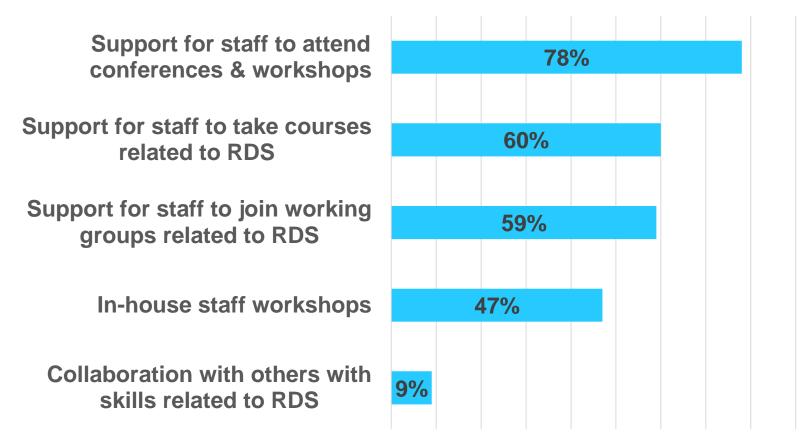
Has your library provided opportunities for library staff to develop skills related to RDS?







Which of the following opportunities has your library provided for library staff to develop skills related to RDS?



0% 10% 20% 30% 40% 50% 60% 70% 80% 90%





Staff Skills Development





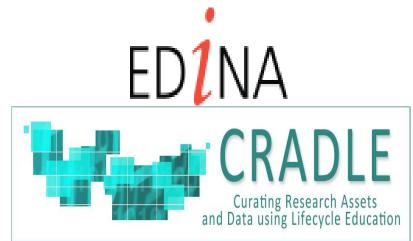


Assistance with training



http://datalib.edina.ac.uk/mantra/







LIBER is Europe's largest network of research libraries, with over 400 members.

Working Group on Scientific Information Infrastructures

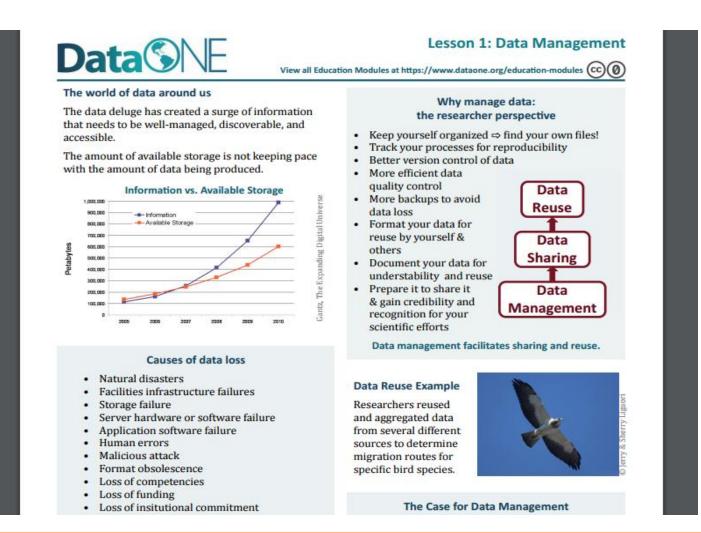


BE



Tools for RDS Education and Assistance

https://www.dataone.org/education-modules



MANKEN



DataONE Education Modules

- 1. Why Data Management
- 2. Data Sharing
- 3. Data Management Planning
- 4. Data Entry and Manipulation
- 5. Data Quality Control and Assurance
- 6. Protecting Your Data
- 7. Metadata
- 8. How to Write Quality Metadata
- 9. Data Citation
- 10. Analysis and Workflows
- 11. Legal and Policy Issues





Thanks to the LIBER Study Team!

Research Data Services in European Academic Research Libraries. <u>https://www.liberquarterly.eu/articles/10.18352/lq.10180/</u>

Carol Tenopir-University of Tennessee

Sanna Talja-University of Tampere

Wolfram Horstmann-University of Gottingen

Birgit Schmidt-University of Gottingen

Elina Late-University of Tampere

Lynn Baird- University of Idaho

Robert Sandusky- University of Illinois-Chicago

Suzie Allard-University of Tennessee

Dane Hughes-University of Tennessee

Danielle Pollock-University of Tennessee



